

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Express Mail No.: **EV 711306586 US**

In re Application of: **Markku RENFORS et al**

International Application No.: **PCT/IB2004/000439**

International Filing Date: **February 12, 2004**

**TITLE: CHANNEL EQUALIZATION**

Attorney Docket No.: **915-007.208**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicant submits herewith references of which they are aware, which they believe may be material to the examination of this application and which they may have a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

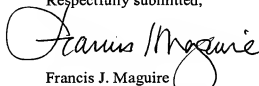
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In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

Enclosed is a Form PTO/1449 listing the references cited and a copy of a PCT International Search Report issued on the corresponding PCT International Application No. PCT/IB2004/000439.

Respectfully submitted,



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/mo

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<b>INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449) (Substitute)</b>			Docket No.: 915-007.208		Serial No. <b>107590039</b>	
			Applicant(s): Markku RENFORS et al			
			Filing Date: Herewith		Group:	
<b>U.S. PATENTS</b>						
Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date
/LN/	5,555,285	09/10/96	Tapia et al			
<b>U.S. PATENT PUBLICATIONS</b>						
Initials	Publication No.	Pub. Date	Name	Class	Sub-class	Filing Date
/LN/	2004/008618	01/15/04	Shirakata et al			
/LN/	2003/067997	04/10/03	Kintis et al			
<b>FOREIGN PATENT DOCUMENTS</b>						
Initials	Document Number	Date	Country	Name	Translation? Ycs/No/n/a	
<b>OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)</b>						
/LN/	"On the Performance of filter Bank Based Multicarrier Systems in xDSL and WLAN Applications" by T. Ihalainen et al, 7 <sup>th</sup> International OFDM Workshop 2002, September 11, 2002, pages 1120-1124					
/LN/	"Techniques for Acquiring and Tracking MIL-STD 181B Signals" by M. Nezami; Military Communications Conf., Milcom 2002, Proceedings, Anaheim, CA Oct. 7-10, 2002; IEEE Military Communications Conf., New York, NY: IEEE, U.S. Vol. 1 of 2, Oct. 7, 2002, pages 224-231.					
/LN/	"An Analysis of Automatic Equalizers for Orthogonally Multiplexed QAM Systems" by B. Hirosaki, IEEE Trans. Commun., Vol. 28, January 1980, pages 73-83					
/LN/	"Frequency Domain Equalization for Single-Carrier Broadband Wireless Systems" by D. Falconer et al; IEEE Communications Magazine, Vol. 40, No. 4, April 2002, pages 58-66					
/LN/	"An Unified Approach to Equalization and Echo Cancellation in OQAM-based Multi-Carrier Data Transmission" by S. Nedec; 1997 IEEE, pages 1519-1523					
/LN/	"Time-Domain Equalizer for Filter Bank-Based Multicarrier Communications" by J. Alhava, 2002 IEEE, pages 184-188					
/LN/	"Adaptive Sine-Modulated/Cosine-Modulated Filter Bank Equalizer for Transmultiplexers" by J. Alhava et al; ECCTD'01-European Conference on Circuit Theory and Design, August 28-31, 2001, Espoo, Finland, pages III-337-III340					
/LN/	"Oversampled Cosine Modulated Filter Banks with Perfect Reconstruction" by H. Bolcskei et al; IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 45, No. 8, Aug. 1998					
/LN/	"On the Performance of Low-Complexity Ascet-Equalizer for a Complex Transmultiplexer in Wireless Mobile Channel" by T. Ihalainen, et al; Proc. 7 <sup>th</sup> Int. OFDM-Workshop 2002, Harburg, Germany, pages 122-126, September 2002					
/LN/	"A Computationally Efficient Method of Timing and Phase Estimation in TDMA Systems Using a Preamble Sequence" by G. Bolding et al; International Journal of Satellite Communications, Vol. 13, 441-452 (1995)					
Examiner's Signature: /Leon Viet Nguyen/			Date Considered: 10/07/2009			
Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).						